

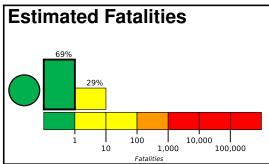




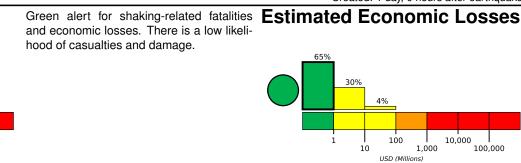
## **PAGER** Version 5

Created: 1 day, 0 hours after earthquake

# **M 4.5, 7 km NW of Medford, Oklahoma** Origin Time: 2022-01-31 17:10:20 UTC (Mon 11:10:20 local) Location: 36.8549° N 97.8002° W Depth: 9.1 km







**Estimated Population Exposed to Earthquake Shaking** 

ESTIMATED POPULATION EXPOSURE (k=x1000)		_*	3,788k*	194k	5k	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVE	SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

or ca City

Edmond

Norman

Oklahoma City

### Population Exposure

Woodward

population per 1 sq. km from Landscan 5000

# 986 sirWton Emporia Great Bend Larned Arkansas City

### **Structures**

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

#### **Historical Earthquakes**

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
1974-02-15	260	4.6	IV(8k)	_
1997-09-06	273	4.5	V(3k)	_

### **Selected City Exposure**

MMI	City	Population
٧	Medford	1k
V	Anthony	2k
IV	Caldwell	1k
IV	Sand Springs	19k
IV	Harper	1k
IV	Chandler	3k
Ш	Wichita	382k
Ш	Tulsa	392k
Ш	Broken Arrow	99k
Ш	Oklahoma City	580k
Ш	Norman	111k

bold cities appear on map.

100

(k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

<sup>\*</sup>Estimated exposure only includes population within the map area.